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=> s iawdwngpkw/sqep

'SQEP' IS NOT A VALID FIELD CODE
L1 1 IAWDWNGPKW/SQEP

=> s iawdwngpkw/scm

'SCM' IS NOT A VALID FIELD CODE
'SCM' IS NOT A VALID FIELD CODE
L2 0 IAWDWNGPKW/SCM

=> e iawdwngpkw/sqep

'SQEP' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'GENBANK'
E1 I IAWARTELL/SQEP
E2 I IAWARTELLNVCMNAKHHKEKPGPEDKLHEQCRPWRKNACCSTNTSQEAHKDVSYLYRFN
WNHCGEMAPACKRHFIQDTCLYECSPNLGPWIQQVDQSWRKERVLNVPLCKEDCEQWWED
CRTSYTCKSNWHKGWNWTSGFNKCAVGAACQPFHFYFPTPTVLCNEIWTHSYKVSNYSRG
SGRCIQMWFDPAQGNPNEEV/SQEP
E3 I --> IAWDWNGPKW/SQEP
E4 I IAWH/SQEP
E5 I IAWHH/SQEP
E6 I IAWKHH/SQEP
E7 I IAWLGAAASGQLGFTSIPATIASLASLATFLMPLIALLLAYDAIVGEDEGGTLMLLLTYP
LGRGQILLGKFVGHGLILALAVLIGFGCAALAIALLVEGVELGMLFWAFGRFMISSTLLG
WVFLAFAYVLSGKVNEKSSAAGLALGVWFLFVLVFDLVLLALLVLSEGKFNPELLPWLLL
LNPTDIYRLINLSGFEGSGS/SQEP
E8 I IAWMAKEFGIPAAVAGTVLNVVEAGGWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKK
EIKKKGKRAV/SQEP
E9 I IAWQRVEGAGLALGGLAVAALAAPGWGAAIWLAILLAPDLTMAGYLAGPRIGAAFYNLGH
LYAPAFLLTVLGVALGSTALMPPRGLWLAHVGFDRMLGYGLKSPSGFRDTHLGRIGREAE
/SQEP
E10 I IAWV/SQEP
E11 I IAWVNTPEHVVPYGLG/SQEP
E12 I IAWYRMGDNCAIPITV/SQEP
The indicated field code is not available for EXPAND in this
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L3 1 IAWDWNGPKW/SQEP

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DICTIONARY FILE UPDATES: 27 MAR 2000 HIGHEST RN 260067-48-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when
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Structure search limits have been increased. See HELP SLIMIT
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=> s IAWDWNGPKW/sqsp

L1 2 IAWDWNGPKW/SQSP

=> d 1-2 all

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 258319-61-8 REGISTRY
CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO0006592 SEQID: 3 claimed protein
FS PROTEIN SEQUENCE
SQL 777

SEQ 1 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYQLY DVCSDSANVY
51 ATLRVLSLPG QHHIELQGDL LHYSPTVLAV IGPDSTNRAA TTAALLSPFL
101 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLLLQ KFGWTWISLV
151 GSSDDYGQLG VQALENQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
201 QAGATVVVVF SSRQLARVFF ESVVLTNLTG KVWVASEAWA LSRHITGVPG
251 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCHK GSWCSSNQLC
301 RECQAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
351 RVYPWQLLEQ IHKVHFLLHK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT
=== =======
401 VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH
451 CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSQTCFP RTVVFLALRE
501 HTSWVLLAAN TLLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA
551 GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIIIFKFST
601 KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWLVVWTPL PAREYQRFPH
651 LVMLECTETN SLGFILAFLY NGLLSISAFA CSYLGKDLPE NYNEAKCVTF
701 SLLFNFVSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFLPKCYV
751 ILCRPDLNST EHFQASIQDY TRRCGST
HITS AT: 388-397

SEQ3 1 Arg-Ser-Cys-Ser-Phe-Asn-Glu-His-Gly-Tyr-
11 His-Leu-Phe-Gln-Ala-Met-Arg-Leu-Gly-Val-
21 Glu-Glu-Ile-Asn-Asn-Ser-Thr-Ala-Leu-Leu-
31 Pro-Asn-Ile-Thr-Leu-Gly-Tyr-Gln-Leu-Tyr-
41 Asp-Val-Cys-Ser-Asp-Ser-Ala-Asn-Val-Tyr-

51 Ala-Thr-Leu-Arg-Val-Leu-Ser-Leu-Pro-Gly-
61 Gln-His-His-Ile-Glu-Leu-Gln-Gly-Asp-Leu-
71 Leu-His-Tyr-Ser-Pro-Thr-Val-Leu-Ala-Val-
81 Ile-Gly-Pro-Asp-Ser-Thr-Asn-Arg-Ala-Ala-
91 Thr-Thr-Ala-Ala-Leu-Leu-Ser-Pro-Phe-Leu-
101 Val-His-Ile-Ser-Tyr-Ala-Ala-Ser-Ser-Glu-
111 Thr-Leu-Ser-Val-Lys-Arg-Gln-Tyr-Pro-Ser-
121 Phe-Leu-Arg-Thr-Ile-Pro-Asn-Asp-Lys-Tyr-
131 Gln-Val-Glu-Thr-Met-Val-Leu-Leu-Leu-Gln-
141 Lys-Phe-Gly-Trp-Thr-Trp-Ile-Ser-Leu-Val-
151 Gly-Ser-Ser-Asp-Asp-Tyr-Gly-Gln-Leu-Gly-
161 Val-Gln-Ala-Leu-Glu-Asn-Gln-Ala-Leu-Val-
171 Arg-Gly-Ile-Cys-Ile-Ala-Phe-Lys-Asp-Ile-
181 Met-Pro-Phe-Ser-Ala-Gln-Val-Gly-Asp-Glu-
191 Arg-Met-Gln-Cys-Leu-Met-Arg-His-Leu-Ala-
201 Gln-Ala-Gly-Ala-Thr-Val-Val-Val-Val-Phe-
211 Ser-Ser-Arg-Gln-Leu-Ala-Arg-Val-Phe-Phe-
221 Glu-Ser-Val-Val-Leu-Thr-Asn-Leu-Thr-Gly-
231 Lys-Val-Trp-Val-Ala-Ser-Glu-Ala-Trp-Ala-
241 Leu-Ser-Arg-His-Ile-Thr-Gly-Val-Pro-Gly-
251 Ile-Gln-Arg-Ile-Gly-Met-Val-Leu-Gly-Val-
261 Ala-Ile-Gln-Lys-Arg-Ala-Val-Pro-Gly-Leu-
271 Lys-Ala-Phe-Glu-Glu-Ala-Tyr-Ala-Arg-Ala-
281 Asp-Lys-Glu-Ala-Pro-Arg-Pro-Cys-His-Lys-
291 Gly-Ser-Trp-Cys-Ser-Ser-Asn-Gln-Leu-Cys-
301 Arg-Glu-Cys-Gln-Ala-Phe-Met-Ala-His-Thr-
311 Met-Pro-Lys-Leu-Lys-Ala-Phe-Ser-Met-Ser-
321 Ser-Ala-Tyr-Asn-Ala-Tyr-Arg-Ala-Val-Tyr-
331 Ala-Val-Ala-His-Gly-Leu-His-Gln-Leu-Leu-
341 Gly-Cys-Ala-Ser-Glu-Leu-Cys-Ser-Arg-Gly-
351 Arg-Val-Tyr-Pro-Trp-Gln-Leu-Leu-Glu-Gln-
361 Ile-His-Lys-Val-His-Phe-Leu-Leu-His-Lys-
371 Asp-Thr-Val-Ala-Phe-Asn-Asp-Asn-Arg-Asp-

381 Pro-Leu-Ser-Ser-Tyr-Asn-Ile-Ile-Ala-Trp-
=== === ===
391 Asp-Trp-Asn-Gly-Pro-Lys-Trp-Thr-Phe-Thr-
=== === === === === === ===
401 Val-Leu-Gly-Ser-Ser-Thr-Trp-Ser-Pro-Val-
411 Gln-Leu-Asn-Ile-Asn-Glu-Thr-Lys-Ile-Gln-
421 Trp-His-Gly-Lys-Asn-His-Gln-Val-Pro-Lys-
431 Ser-Val-Cys-Ser-Ser-Asp-Cys-Leu-Glu-Gly-
441 His-Gln-Arg-Val-Val-Thr-Gly-Phe-His-His-
451 Cys-Cys-Phe-Glu-Cys-Val-Pro-Cys-Gly-Ala-
461 Gly-Thr-Phe-Leu-Asn-Lys-Ser-Glu-Leu-Tyr-
471 Arg-Cys-Gln-Pro-Cys-Gly-Thr-Glu-Glu-Trp-
481 Ala-Pro-Glu-Gly-Ser-Gln-Thr-Cys-Phe-Pro-
491 Arg-Thr-Val-Val-Phe-Leu-Ala-Leu-Arg-Glu-
501 His-Thr-Ser-Trp-Val-Leu-Leu-Ala-Ala-Asn-
511 Thr-Leu-Leu-Leu-Leu-Leu-Leu-Leu-Gly-Thr-
521 Ala-Gly-Leu-Phe-Ala-Trp-His-Leu-Asp-Thr-
531 Pro-Val-Val-Arg-Ser-Ala-Gly-Gly-Arg-Leu-
541 Cys-Phe-Leu-Met-Leu-Gly-Ser-Leu-Ala-Ala-
551 Gly-Ser-Gly-Ser-Leu-Tyr-Gly-Phe-Phe-Gly-
561 Glu-Pro-Thr-Arg-Pro-Ala-Cys-Leu-Leu-Arg-

571 Gln-Ala-Leu-Phe-Ala-Leu-Gly-Phe-Thr-Ile-
581 Phe-Leu-Ser-Cys-Leu-Thr-Val-Arg-Ser-Phe-
591 Gln-Leu-Ile-Ile-Ile-Phe-Lys-Phe-Ser-Thr-
601 Lys-Val-Pro-Thr-Phe-Tyr-His-Ala-Trp-Val-
611 Gln-Asn-His-Gly-Ala-Gly-Leu-Phe-Val-Met-
621 Ile-Ser-Ser-Ala-Ala-Gln-Leu-Leu-Ile-Cys-
631 Leu-Thr-Trp-Leu-Val-Val-Trp-Thr-Pro-Leu-
641 Pro-Ala-Arg-Glu-Tyr-Gln-Arg-Phe-Pro-His-
651 Leu-Val-Met-Leu-Glu-Cys-Thr-Glu-Thr-Asn-
661 Ser-Leu-Gly-Phe-Ile-Leu-Ala-Phe-Leu-Tyr-
671 Asn-Gly-Leu-Leu-Ser-Ile-Ser-Ala-Phe-Ala-
681 Cys-Ser-Tyr-Leu-Gly-Lys-Asp-Leu-Pro-Glu-
691 Asn-Tyr-Asn-Glu-Ala-Lys-Cys-Val-Thr-Phe-
701 Ser-Leu-Leu-Phe-Asn-Phe-Val-Ser-Trp-Ile-
711 Ala-Phe-Phe-Thr-Thr-Ala-Ser-Val-Tyr-Asp-
721 Gly-Lys-Tyr-Leu-Pro-Ala-Ala-Asn-Met-Met-
731 Ala-Gly-Leu-Ser-Ser-Leu-Ser-Ser-Gly-Phe-
741 Gly-Gly-Tyr-Phe-Leu-Pro-Lys-Cys-Tyr-Val-
751 Ile-Leu-Cys-Arg-Pro-Asp-Leu-Asn-Ser-Thr-
761 Glu-His-Phe-Gln-Ala-Ser-Ile-Gln-Asp-Tyr-
771 Thr-Arg-Arg-Cys-Gly-Ser-Thr

HITS AT: 388-397

MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA
TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction
IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick; Hoon, Mark
PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
ICS C07H021-04; C12P021-06
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000006592	A1	20000210	WO 1999-US17099	19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,

TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728

AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT cDNA sequences
(for mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Molecular cloning
Mouse
Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 256479-74-0 REGISTRY
CN L-Tryptophan, L-isoleucyl-L-alanyl-L-tryptophyl-L-.alpha.-aspartyl-L-tryptophyl-L-asparaginylglycyl-L-prolyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: WO0006592 SEQID: 7 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10

SEQ 1 IAWDWNGPKW
==========
HITS AT: 1-10

SEQ3 1 Ile-Ala-Trp-Asp-Trp-Asn-Gly-Pro-Lys-Trp
=== === === === === === === === === ===
HITS AT: 1-10

MF C63 H81 N15 O14
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C4N	NC4	5	C4N	16.136.1	1
C4N-C6	NC4-C6	5-6	C8N	333.151.57	3

Absolute stereochemistry.

/ Structure 1 in file .gra /

/ Structure 2 in file .gra /

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PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
ICS C07H021-04; C12P021-06
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000006592	A1	20000210	WO 1999-US17099	19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728
AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.
ST taste receptor B3 cDNA sequence mouse rat human
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RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
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(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

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(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein

coupled receptors involved in taste sensory transduction)

=> d kwic 1

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS

SEQ 351 RVYPWQLLEQ IHKVHFLLHK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT
=== =======

HITS AT: 388-397

=> d kwic 2

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS

SEQ 1 IAWDWNGPKW
==========

HITS AT: 1-10

=> d l1 1-2 sqn

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 258319-61-8 REGISTRY
CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO0006592 SEQID: 3 claimed protein
FS PROTEIN SEQUENCE
SQL 777
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 256479-74-0 REGISTRY
CN L-Tryptophan, L-isoleucyl-L-alanyl-L-tryptophyl-L-.alpha.-aspartyl-L-tryptophyl-L-asparaginylglycyl-L-prolyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: WO0006592 SEQID: 7 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s lpenyneakc/sqsp

L2 7 LPENYNEAKC/SQSP

=> dup rem l2

DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3 7 DUP REM L2 (0 DUPLICATES REMOVED)

=> d l2 1 all

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-67-4 REGISTRY
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNGH GYHLFQAMRF TVEEINNSSG LLPNITLGYE
101 LYDVCSESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNGPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
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801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT
HITS AT: 751-760

SEQ3 1 Met-Leu-Phe-Trp-Ala-Ala-His-Leu-Leu-Leu-
11 Ser-Leu-Gln-Leu-Val-Tyr-Cys-Trp-Ala-Phe-
21 Ser-Cys-Gln-Arg-Thr-Glu-Ser-Ser-Pro-Gly-
31 Phe-Ser-Leu-Pro-Gly-Asp-Phe-Leu-Leu-Ala-
41 Gly-Leu-Phe-Ser-Leu-His-Gly-Asp-Cys-Leu-
51 Gln-Val-Arg-His-Arg-Pro-Leu-Val-Thr-Ser-
61 Cys-Asp-Arg-Pro-Asp-Ser-Phe-Asn-Gly-His-
71 Gly-Tyr-His-Leu-Phe-Gln-Ala-Met-Arg-Phe-
81 Thr-Val-Glu-Glu-Ile-Asn-Asn-Ser-Ser-Gly-
91 Leu-Leu-Pro-Asn-Ile-Thr-Leu-Gly-Tyr-Glu-
101 Leu-Tyr-Asp-Val-Cys-Ser-Glu-Ser-Ala-Asn-
111 Val-Tyr-Ala-Thr-Leu-Arg-Val-Leu-Ala-Leu-
121 Gln-Gly-Pro-Arg-His-Ile-Glu-Ile-Gln-Lys-
131 Asp-Leu-Arg-Asn-His-Ser-Ser-Lys-Val-Val-
141 Ala-Phe-Ile-Gly-Pro-Asp-Asn-Thr-Asp-His-
151 Ala-Val-Thr-Thr-Ala-Ala-Leu-Leu-Gly-Pro-
161 Phe-Leu-Met-Pro-Leu-Val-Ser-Tyr-Glu-Ala-
171 Ser-Ser-Val-Val-Leu-Ser-Ala-Lys-Arg-Lys-
181 Phe-Pro-Ser-Phe-Leu-Arg-Thr-Val-Pro-Ser-
191 Asp-Arg-His-Gln-Val-Glu-Val-Met-Val-Gln-

201 Leu-Leu-Gln-Ser-Phe-Gly-Trp-Val-Trp-Ile-
211 Ser-Leu-Ile-Gly-Ser-Tyr-Gly-Asp-Tyr-Gly-
221 Gln-Leu-Gly-Val-Gln-Ala-Leu-Glu-Glu-Leu-
231 Ala-Val-Pro-Arg-Gly-Ile-Cys-Val-Ala-Phe-
241 Lys-Asp-Ile-Val-Pro-Phe-Ser-Ala-Arg-Val-
251 Gly-Asp-Pro-Arg-Met-Gln-Ser-Met-Met-Gln-
261 His-Leu-Ala-Gln-Ala-Arg-Thr-Thr-Val-Val-
271 Val-Val-Phe-Ser-Asn-Arg-His-Leu-Ala-Arg-
281 Val-Phe-Phe-Arg-Ser-Val-Val-Leu-Ala-Asn-
291 Leu-Thr-Gly-Lys-Val-Trp-Val-Ala-Ser-Glu-
301 Asp-Trp-Ala-Ile-Ser-Thr-Tyr-Ile-Thr-Ser-
311 Val-Thr-Gly-Ile-Gln-Gly-Ile-Gly-Thr-Val-
321 Leu-Gly-Val-Ala-Val-Gln-Gln-Arg-Gln-Val-
331 Pro-Gly-Leu-Lys-Glu-Phe-Glu-Glu-Ser-Tyr-
341 Val-Arg-Ala-Val-Thr-Ala-Ala-Pro-Ser-Ala-
351 Cys-Pro-Glu-Gly-Ser-Trp-Cys-Ser-Thr-Asn-
361 Gln-Leu-Cys-Arg-Glu-Cys-His-Thr-Phe-Thr-
371 Thr-Arg-Asn-Met-Pro-Thr-Leu-Gly-Ala-Phe-
381 Ser-Met-Ser-Ala-Ala-Tyr-Arg-Val-Tyr-Glu-
391 Ala-Val-Tyr-Ala-Val-Ala-His-Gly-Leu-His-
401 Gln-Leu-Leu-Gly-Cys-Thr-Ser-Glu-Ile-Cys-
411 Ser-Arg-Gly-Pro-Val-Tyr-Pro-Trp-Gln-Leu-
421 Leu-Gln-Gln-Ile-Tyr-Lys-Val-Asn-Phe-Leu-
431 Leu-His-Glu-Asn-Thr-Val-Ala-Phe-Asp-Asp-
441 Asn-Gly-Asp-Thr-Leu-Gly-Tyr-Tyr-Asp-Ile-
451 Ile-Ala-Trp-Asp-Trp-Asn-Gly-Pro-Glu-Trp-
461 Thr-Phe-Glu-Ile-Ile-Gly-Ser-Ala-Ser-Leu-
471 Ser-Pro-Val-His-Leu-Asp-Ile-Asn-Lys-Thr-
481 Lys-Ile-Gln-Trp-His-Gly-Lys-Asn-Asn-Gln-
491 Val-Pro-Val-Ser-Val-Cys-Thr-Thr-Asp-Cys-
501 Leu-Ala-Gly-His-His-Arg-Val-Val-Val-Gly-

511 Ser-His-His-Cys-Cys-Phe-Glu-Cys-Val-Pro-
521 Cys-Glu-Ala-Gly-Thr-Phe-Leu-Asn-Met-Ser-
531 Glu-Leu-His-Ile-Cys-Gln-Pro-Cys-Gly-Thr-
541 Glu-Glu-Trp-Ala-Pro-Lys-Glu-Ser-Thr-Thr-
551 Cys-Phe-Pro-Arg-Thr-Val-Glu-Phe-Leu-Ala-
561 Trp-His-Glu-Pro-Ile-Ser-Leu-Val-Leu-Ile-
571 Ala-Ala-Asn-Thr-Leu-Leu-Leu-Leu-Leu-Leu-
581 Val-Gly-Thr-Ala-Gly-Leu-Phe-Ala-Trp-His-
591 Phe-His-Thr-Pro-Val-Val-Arg-Ser-Ala-Gly-
601 Gly-Arg-Leu-Cys-Phe-Leu-Met-Leu-Gly-Ser-
611 Leu-Val-Ala-Gly-Ser-Cys-Ser-Phe-Tyr-Ser-
621 Phe-Phe-Gly-Glu-Pro-Thr-Val-Pro-Ala-Cys-
631 Leu-Leu-Arg-Gln-Pro-Leu-Phe-Ser-Leu-Gly-
641 Phe-Ala-Ile-Phe-Leu-Ser-Cys-Leu-Thr-Ile-
651 Arg-Ser-Phe-Gln-Leu-Val-Ile-Ile-Phe-Lys-
661 Phe-Ser-Thr-Lys-Val-Pro-Thr-Phe-Tyr-Arg-
671 Thr-Trp-Ala-Gln-Asn-His-Gly-Ala-Gly-Leu-
681 Phe-Val-Ile-Val-Ser-Ser-Thr-Val-His-Leu-
691 Leu-Ile-Cys-Leu-Thr-Trp-Leu-Val-Met-Trp-
701 Thr-Pro-Arg-Pro-Thr-Arg-Glu-Tyr-Gln-Arg-
711 Phe-Pro-His-Leu-Val-Ile-Leu-Glu-Cys-Thr-
721 Glu-Val-Asn-Ser-Val-Gly-Phe-Leu-Leu-Ala-
731 Phe-Thr-His-Asn-Ile-Leu-Leu-Ser-Ile-Ser-

741 Thr-Phe-Val-Cys-Ser-Tyr-Leu-Gly-Lys-Glu-

751 Leu-Pro-Glu-Asn-Tyr-Asn-Glu-Ala-Lys-Cys-
=== === === === === === === === === ===
761 Val-Thr-Phe-Ser-Leu-Leu-Leu-Asn-Phe-Val-
771 Ser-Trp-Ile-Ala-Phe-Phe-Thr-Met-Ala-Ser-
781 Ile-Tyr-Gln-Gly-Ser-Tyr-Leu-Pro-Ala-Val-
791 Asn-Val-Leu-Ala-Gly-Leu-Thr-Thr-Leu-Ser-
801 Gly-Gly-Phe-Ser-Gly-Tyr-Phe-Leu-Pro-Lys-
811 Cys-Tyr-Val-Ile-Leu-Cys-Arg-Pro-Glu-Leu-
821 Asn-Asn-Thr-Glu-His-Phe-Gln-Ala-Ser-Ile-
831 Gln-Asp-Tyr-Thr-Arg-Arg-Cys-Gly-Thr-Thr

HITS AT: 751-760

MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA
TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction
IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick; Hoon, Mark
PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
ICS C07H021-04; C12P021-06
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000006592	A1	20000210	WO 1999-US17099	19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728
AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and

methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.

ST taste receptor B3 cDNA sequence mouse rat human

IT Taste receptors
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT cDNA sequences
(for mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Molecular cloning
Mouse
Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein

coupled receptors involved in taste sensory transduction)
IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

=> d l2 1 sqide

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-67-4 REGISTRY
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNGH GYHLFQAMRF TVEEINNSSG LLPNITLGYE
101 LYDVCSESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNGPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
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801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT
HITS AT: 751-760
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d l2 1-7 sqide

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-67-4 REGISTRY
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNGH GYHLFQAMRF TVEEINNSSG LLPNITLGYE
101 LYDVCSESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNGPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
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801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT
HITS AT: 751-760
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-66-3 REGISTRY
CN Taste receptor B3 (rat isoform #2) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 9: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNGH GYHLFQAMRF TVEDINNSSA LLPNITLGYE
101 LYDVCSESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNGPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI

651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT
HITS AT: 751-760
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-65-2 REGISTRY
CN Taste receptor B3 (rat isoform #1) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 8: PN: WO0006592 SEQID: 1 claimed sequence
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSIPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNGH GYHLFQAMRF TVEEINNSSA LLPNITLGYE
101 LYDVCSESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNGPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC
501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
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801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT
HITS AT: 751-760
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-61-8 REGISTRY
CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO0006592 SEQID: 3 claimed protein
FS PROTEIN SEQUENCE
SQL 777

SEQ 1 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYQLY DVCSDSANVY
51 ATLRVLSLPG QHHIELQGDL LHYSPTVLAV IGPDSTNRAA TTAALLSPFL
101 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLLLQ KFGWTWISLV
151 GSSDDYGQLG VQALENQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
201 QAGATVVVVF SSRQLARVFF ESVVLTNLTG KVWVASEAWA LSRHITGVPG
251 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCHK GSWCSSNQLC
301 RECQAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
351 RVYPWQLLEQ IHKVHFLLHK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT
401 VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH
451 CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSQTCFP RTVVFLALRE
501 HTSWVLLAAN TLLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA
551 GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIIIFKFST
601 KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWLVVWTPL PAREYQRFPH
651 LVMLECTETN SLGFILAFLY NGLLSISAFA CSYLGKDLPE NYNEAKCVTF
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701 SLLFNFVSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFLPKCYV
751 ILCRPDLNST EHFQASIQDY TRRCGST
HITS AT: 688-697
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 258319-60-7 REGISTRY
CN Taste receptor B3 (mouse) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3: PN: WO0006592 SEQID: 2 claimed protein
FS PROTEIN SEQUENCE
SQL 842

SEQ 1 MLFWAAHLLL SLQLAVAYCW AFSCQRTESS PGFSLPGDFL LAGLFSLHAD
51 CLQVRHRPLV TSCDRSDSFN GHGYHLFQAM RFTVEEINNS TALLPNITLG
101 YELYDVCSES SNVYATLRVP AQQGTGHLEM QRDLRNHSSK VVALIGPDNT
151 DHAVTTAALL SPFLMPLVSY EASSVILSGK RKFPSFLRTI PSDKYQVEVI
201 VRLLQSFGWV WISLVGSYGD YGQLGVQALE ELATPRGICV AFKDVVPLSA
251 QAGDPRMQRM MLRLARARTT VVVVFSNRHL AGVFFRSVVL ANLTGKVWIA
301 SEDWAISTYI TNVPGIQGIG TVLGVAIQQR QVPGLKEFEE SYVQAVMGAP
351 RTCPEGSWCG TNQLCRECHA FTTWNMPELG AFSMSAAYNV YEAVYAVAHG
401 LHQLLGCTSG TCARGPVYPW QLLQQIYKVN FLLHKKTVAF DDKGDPLGYY
451 DIIAWDWNGP EWTFEVIGSA SLSPVHLDIN KTKIQWHGKN NQVPVSVCTR
501 DCLEGHHRLV MGSHHCCFEC MPCEAGTFLN TSELHTCQPC GTEEWAPEGS
551 SACFSRTVEF LGWHEPISLV LLAANTLLLL LLIGTAGLFA WRLHTPVVRS
601 AGGRLCFLML GSLVAGSCSL YSFFGKPTVP ACLLRQPLFS LGFAIFLSCL
651 TIRSFQLVII FKFSTKVPTF YHTWAQNHGA GIFVIVSSTV HLFLCLTWLA
701 MWTPRPTREY QRFPHLVILE CTEVNSVGFL VAFAHNILLS ISTFVCSYLG
751 KELPENYNEA KCVTFSLLLH FVSWIAFFTM SSIYQGSYLP AVNVLAGLAT
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801 LSGGFSGYFL PKCYVILCRP ELNNTEHFQA SIQDYTRRCG TT
HITS AT: 753-762
MF Unspecified
CI MAN
SR CA

LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 256479-75-1 REGISTRY
CN L-Cysteine, L-leucyl-L-prolyl-L-.alpha.-glutamyl-L-asparaginyl-L-tyrosyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2: PN: WO0006592 SEQID: 8 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10

SEQ 1 LPENYNEAKC
==========
HITS AT: 1-10
MF C50 H77 N13 O18 S
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

/ Structure 3 in file .gra /

/ Structure 4 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 224043-49-6 REGISTRY
CN Taste receptor TR1 (Rattus norvegicus circumvallate papilla N-terminal fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: WO0006592 SEQID: 1 claimed protein
CN GenBank AF127389-derived protein GI 4337086
CN Putative taste receptor TR1 (Rattus norvegicus circumvallate papilla N-terminal fragment)
CN Taste receptor B3 (rat)
FS PROTEIN SEQUENCE
SQL 840

SEQ 1 MLFWAAHLLL SLQLVYCWAF SCQRTESSPG FSLPGDFLLA GLFSLHGDCL
51 QVRHRPLVTS CDRPDSFNGH GYHLFQAMRF TVEEINNSSA LLPNITLGYE
101 LYDVCSESAN VYATLRVLAL QGPRHIEIQK DLRNHSSKVV AFIGPDNTDH
151 AVTTAALLGP FLMPLVSYEA SSVVLSAKRK FPSFLRTVPS DRHQVEVMVQ
201 LLQSFGWVWI SLIGSYGDYG QLGVQALEEL AVPRGICVAF KDIVPFSARV
251 GDPRMQSMMQ HLAQARTTVV VVFSNRHLAR VFFRSVVLAN LTGKVWVASE
301 DWAISTYITS VTGIQGIGTV LGVAVQQRQV PGLKEFEESY VRAVTAAPSA
351 CPEGSWCSTN QLCRECHTFT TRNMPTLGAF SMSAAYRVYE AVYAVAHGLH
401 QLLGCTSEIC SRGPVYPWQL LQQIYKVNFL LHENTVAFDD NGDTLGYYDI
451 IAWDWNGPEW TFEIIGSASL SPVHLDINKT KIQWHGKNNQ VPVSVCTTDC

501 LAGHHRVVVG SHHCCFECVP CEAGTFLNMS ELHICQPCGT EEWAPKESTT
551 CFPRTVEFLA WHEPISLVLI AANTLLLLLL VGTAGLFAWH FHTPVVRSAG
601 GRLCFLMLGS LVAGSCSFYS FFGEPTVPAC LLRQPLFSLG FAIFLSCLTI
651 RSFQLVIIFK FSTKVPTFYR TWAQNHGAGL FVIVSSTVHL LICLTWLVMW
701 TPRPTREYQR FPHLVILECT EVNSVGFLLA FTHNILLSIS TFVCSYLGKE
751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
801 GGFSGYFLPK CYVILCRPEL NNTEHFQASI QDYTRRCGTT
HITS AT: 751-760
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d l2 1-7 kwic

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
HITS AT: 751-760

L2 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
HITS AT: 751-760

L2 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
HITS AT: 751-760

L2 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 651 LVMLECTETN SLGFILAFLY NGLLSISAFA CSYLGKDLPE NYNEAKCVTF
=== =======
HITS AT: 688-697

L2 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 KELPENYNEA KCVTFSLLLH FVSWIAFFTM SSIYQGSYLP AVNVLAGLAT
======== ==
HITS AT: 753-762

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 1 LPENYNEAKC
==========
HITS AT: 1-10

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========

HITS AT: 751-760

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.73	148.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.59	-1.59

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NEWS 4 Feb 2 STEREO BOND SEARCH PROBLEM FIXED WITH STN EXPRESS 5.0C
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=> file registry

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DICTIONARY FILE UPDATES: 27 MAR 2000 HIGHEST RN 260067-48-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=> s iawdwngpkw/sqsp

L1 2 IAWDWNGPKW/SQSP

=> d l1 1-2 all

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 258319-61-8 REGISTRY
CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO0006592 SEQID: 3 claimed protein
FS PROTEIN SEQUENCE
SQL 777

SEQ 1 RSCSFNEHGY HLFQAMRLGV EEINNSTALL PNITLGYQLY DVCSDSANVY
51 ATLRVLSLPG QHHIELQGDL LHYSPTVLAV IGPDSTNRAA TTAALLSPFL
101 VHISYAASSE TLSVKRQYPS FLRTIPNDKY QVETMVLLLQ KFGWTWISLV
151 GSSDDYGQLG VQALENQALV RGICIAFKDI MPFSAQVGDE RMQCLMRHLA
201 QAGATVVVVF SSRQLARVFF ESVVLTNLTG KVWVASEAWA LSRHITGVPG

251 IQRIGMVLGV AIQKRAVPGL KAFEEAYARA DKEAPRPCHK GSWCSSNQLC
301 RECQAFMAHT MPKLKAFSMS SAYNAYRAVY AVAHGLHQLL GCASELCSRG
351 RVYPWQLLEQ IHKVHFLLHK DTVAFNDNRD PLSSYNIIAW DWNGPKWTFT
=== ========
401 VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVTGFHH
451 CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSQTCFP RTVVFLALRE
501 HTSWVLLAAN TLLLLLLLGT AGLFAWHLDT PVVRSAGGRL CFLMLGSLAA
551 GSGSLYGFFG EPTRPACLLR QALFALGFTI FLSCLTVRSF QLIIIFKFST
601 KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWLVVWTPL PAREYQRFPH
651 LVMLECTETN SLGFILAFLY NGLLSISAFA CSYLGKDLPE NYNEAKCVTF
701 SLLFNFVSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFLPKCYV
751 ILCRPDLNST EHFQASIQDY TRRCGST

HITS AT: 388-397

SEQ3 1 Arg-Ser-Cys-Ser-Phe-Asn-Glu-His-Gly-Tyr-
11 His-Leu-Phe-Gln-Ala-Met-Arg-Leu-Gly-Val-
21 Glu-Glu-Ile-Asn-Asn-Ser-Thr-Ala-Leu-Leu-
31 Pro-Asn-Ile-Thr-Leu-Gly-Tyr-Gln-Leu-Tyr-
41 Asp-Val-Cys-Ser-Asp-Ser-Ala-Asn-Val-Tyr-
51 Ala-Thr-Leu-Arg-Val-Leu-Ser-Leu-Pro-Gly-
61 Gln-His-His-Ile-Glu-Leu-Gln-Gly-Asp-Leu-
71 Leu-His-Tyr-Ser-Pro-Thr-Val-Leu-Ala-Val-
81 Ile-Gly-Pro-Asp-Ser-Thr-Asn-Arg-Ala-Ala-
91 Thr-Thr-Ala-Ala-Leu-Leu-Ser-Pro-Phe-Leu-
101 Val-His-Ile-Ser-Tyr-Ala-Ala-Ser-Ser-Glu-
111 Thr-Leu-Ser-Val-Lys-Arg-Gln-Tyr-Pro-Ser-
121 Phe-Leu-Arg-Thr-Ile-Pro-Asn-Asp-Lys-Tyr-
131 Gln-Val-Glu-Thr-Met-Val-Leu-Leu-Leu-Gln-
141 Lys-Phe-Gly-Trp-Thr-Trp-Ile-Ser-Leu-Val-
151 Gly-Ser-Ser-Asp-Asp-Tyr-Gly-Gln-Leu-Gly-
161 Val-Gln-Ala-Leu-Glu-Asn-Gln-Ala-Leu-Val-
171 Arg-Gly-Ile-Cys-Ile-Ala-Phe-Lys-Asp-Ile-
181 Met-Pro-Phe-Ser-Ala-Gln-Val-Gly-Asp-Glu-
191 Arg-Met-Gln-Cys-Leu-Met-Arg-His-Leu-Ala-
201 Gln-Ala-Gly-Ala-Thr-Val-Val-Val-Val-Phe-
211 Ser-Ser-Arg-Gln-Leu-Ala-Arg-Val-Phe-Phe-
221 Glu-Ser-Val-Val-Leu-Thr-Asn-Leu-Thr-Gly-
231 Lys-Val-Trp-Val-Ala-Ser-Glu-Ala-Trp-Ala-
241 Leu-Ser-Arg-His-Ile-Thr-Gly-Val-Pro-Gly-
251 Ile-Gln-Arg-Ile-Gly-Met-Val-Leu-Gly-Val-
261 Ala-Ile-Gln-Lys-Arg-Ala-Val-Pro-Gly-Leu-
271 Lys-Ala-Phe-Glu-Glu-Ala-Tyr-Ala-Arg-Ala-
281 Asp-Lys-Glu-Ala-Pro-Arg-Pro-Cys-His-Lys-
291 Gly-Ser-Trp-Cys-Ser-Ser-Asn-Gln-Leu-Cys-
301 Arg-Glu-Cys-Gln-Ala-Phe-Met-Ala-His-Thr-
311 Met-Pro-Lys-Leu-Lys-Ala-Phe-Ser-Met-Ser-
321 Ser-Ala-Tyr-Asn-Ala-Tyr-Arg-Ala-Val-Tyr-
331 Ala-Val-Ala-His-Gly-Leu-His-Gln-Leu-Leu-
341 Gly-Cys-Ala-Ser-Glu-Leu-Cys-Ser-Arg-Gly-
351 Arg-Val-Tyr-Pro-Trp-Gln-Leu-Leu-Glu-Gln-
361 Ile-His-Lys-Val-His-Phe-Leu-Leu-His-Lys-
371 Asp-Thr-Val-Ala-Phe-Asn-Asp-Asn-Arg-Asp-

381 Pro-Leu-Ser-Ser-Tyr-Asn-Ile-Ile-Ala-Trp-
=== === ===

391 Asp-Trp-Asn-Gly-Pro-Lys-Trp-Thr-Phe-Thr-
=== === === === === === ===
401 Val-Leu-Gly-Ser-Ser-Thr-Trp-Ser-Pro-Val-
411 Gln-Leu-Asn-Ile-Asn-Glu-Thr-Lys-Ile-Gln-
421 Trp-His-Gly-Lys-Asn-His-Gln-Val-Pro-Lys-
431 Ser-Val-Cys-Ser-Ser-Asp-Cys-Leu-Glu-Gly-
441 His-Gln-Arg-Val-Val-Thr-Gly-Phe-His-His-
451 Cys-Cys-Phe-Glu-Cys-Val-Pro-Cys-Gly-Ala-
461 Gly-Thr-Phe-Leu-Asn-Lys-Ser-Glu-Leu-Tyr-
471 Arg-Cys-Gln-Pro-Cys-Gly-Thr-Glu-Glu-Trp-
481 Ala-Pro-Glu-Gly-Ser-Gln-Thr-Cys-Phe-Pro-
491 Arg-Thr-Val-Val-Phe-Leu-Ala-Leu-Arg-Glu-
501 His-Thr-Ser-Trp-Val-Leu-Leu-Ala-Ala-Asn-
511 Thr-Leu-Leu-Leu-Leu-Leu-Leu-Leu-Gly-Thr-
521 Ala-Gly-Leu-Phe-Ala-Trp-His-Leu-Asp-Thr-
531 Pro-Val-Val-Arg-Ser-Ala-Gly-Gly-Arg-Leu-
541 Cys-Phe-Leu-Met-Leu-Gly-Ser-Leu-Ala-Ala-
551 Gly-Ser-Gly-Ser-Leu-Tyr-Gly-Phe-Phe-Gly-
561 Glu-Pro-Thr-Arg-Pro-Ala-Cys-Leu-Leu-Arg-
571 Gln-Ala-Leu-Phe-Ala-Leu-Gly-Phe-Thr-Ile-
581 Phe-Leu-Ser-Cys-Leu-Thr-Val-Arg-Ser-Phe-
591 Gln-Leu-Ile-Ile-Ile-Phe-Lys-Phe-Ser-Thr-
601 Lys-Val-Pro-Thr-Phe-Tyr-His-Ala-Trp-Val-
611 Gln-Asn-His-Gly-Ala-Gly-Leu-Phe-Val-Met-
621 Ile-Ser-Ser-Ala-Ala-Gln-Leu-Leu-Ile-Cys-
631 Leu-Thr-Trp-Leu-Val-Val-Trp-Thr-Pro-Leu-
641 Pro-Ala-Arg-Glu-Tyr-Gln-Arg-Phe-Pro-His-
651 Leu-Val-Met-Leu-Glu-Cys-Thr-Glu-Thr-Asn-
661 Ser-Leu-Gly-Phe-Ile-Leu-Ala-Phe-Leu-Tyr-
671 Asn-Gly-Leu-Leu-Ser-Ile-Ser-Ala-Phe-Ala-
681 Cys-Ser-Tyr-Leu-Gly-Lys-Asp-Leu-Pro-Glu-
691 Asn-Tyr-Asn-Glu-Ala-Lys-Cys-Val-Thr-Phe-
701 Ser-Leu-Leu-Phe-Asn-Phe-Val-Ser-Trp-Ile-
711 Ala-Phe-Phe-Thr-Thr-Ala-Ser-Val-Tyr-Asp-
721 Gly-Lys-Tyr-Leu-Pro-Ala-Ala-Asn-Met-Met-
731 Ala-Gly-Leu-Ser-Ser-Leu-Ser-Ser-Gly-Phe-
741 Gly-Gly-Tyr-Phe-Leu-Pro-Lys-Cys-Tyr-Val-
751 Ile-Leu-Cys-Arg-Pro-Asp-Leu-Asn-Ser-Thr-
761 Glu-His-Phe-Gln-Ala-Ser-Ile-Gln-Asp-Tyr-
771 Thr-Arg-Arg-Cys-Gly-Ser-Thr

HITS AT: 388-397

MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA
TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction
IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick;

Hoon, Mark
PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
ICS C07H021-04; C12P021-06
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006592	A1	20000210	WO 1999-US17099	19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1998-94465 19980728
AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.
ST taste receptor B3 cDNA sequence mouse rat human
IT Taste receptors
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT cDNA sequences
(for mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Molecular cloning
Mouse

Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 256479-74-0 REGISTRY
CN L-Tryptophan, L-isoleucyl-L-alanyl-L-tryptophyl-L-.alpha.-aspartyl-L-tryptophyl-L-asparaginylglycyl-L-prolyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: WO0006592 SEQID: 7 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10

SEQ 1 IAWDWNGPKW
==========
HITS AT: 1-10

SEQ3 1 Ile-Ala-Trp-Asp-Trp-Asn-Gly-Pro-Lys-Trp

=== === === === === === === === === ===
HITS AT: 1-10

MF C63 H81 N15 O14
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	Occurrence Count
C4N	NC4	5	C4N	16.136.1	1
C4N-C6	NC4-C6	5-6	C8N	333.151.57	3

Absolute stereochemistry.

/ Structure 5 in file .gra /

/ Structure 6 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA
TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction
IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick; Hoon, Mark
PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
ICS C07H021-04; C12P021-06
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000006592	A1	20000210	WO 1999-US17099	19990727

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,

MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1998-94465 19980728
AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.
ST taste receptor B3 cDNA sequence mouse rat human
IT Taste receptors
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT cDNA sequences
(for mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Molecular cloning
Mouse
Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs

(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

=> s lpenyneakc/sqsp

L2 7 LPENYNEAKC/SQSP

=> d l2 1-7 cn lc rn kwic

L2 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN Taste receptor B3 (rat isoform #3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 10: PN: WO0006592 SEQID: 1 claimed sequence
LC STN Files: CA, CAPLUS, TOXLIT
RN 258319-67-4 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
HITS AT: 751-760

L2 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN Taste receptor B3 (rat isoform #2) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 9: PN: WO0006592 SEQID: 1 claimed sequence
LC STN Files: CA, CAPLUS, TOXLIT
RN 258319-66-3 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
HITS AT: 751-760

L2 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN Taste receptor B3 (rat isoform #1) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 8: PN: WO0006592 SEQID: 1 claimed sequence

LC STN Files: CA, CAPLUS, TOXLIT
RN 258319-65-2 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========
HITS AT: 751-760

L2 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN Taste receptor B3 (human) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4: PN: WO0006592 SEQID: 3 claimed protein
LC STN Files: CA, CAPLUS, TOXLIT
RN 258319-61-8 REGISTRY

SEQ 651 LVMLECTETN SLGFILAFLY NGLLSISAFA CSYLGKDLPE NYNEAKCVTF
=== =======
HITS AT: 688-697

L2 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN Taste receptor B3 (mouse) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3: PN: WO0006592 SEQID: 2 claimed protein
LC STN Files: CA, CAPLUS, TOXLIT
RN 258319-60-7 REGISTRY

SEQ 751 KELPENYNEA KCVTFSLLLH FVSWIAFFTM SSIYQGSYLP AVNVLAGLAT
======== ==
HITS AT: 753-762

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN L-Cysteine, L-leucyl-L-prolyl-L-.alpha.-glutamyl-L-asparaginyl-L-tyrosyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2: PN: WO0006592 SEQID: 8 claimed sequence
LC STN Files: CA, CAPLUS, TOXLIT
RN 256479-75-1 REGISTRY

SEQ 1 LPENYNEAKC
==========
HITS AT: 1-10

L2 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN Taste receptor TR1 (Rattus norvegicus circumvallate papilla N-terminal fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: WO0006592 SEQID: 1 claimed protein
CN GenBank AF127389-derived protein GI 4337086
CN Putative taste receptor TR1 (Rattus norvegicus circumvallate papilla N-terminal fragment)
CN Taste receptor B3 (rat)
LC STN Files: CA, CAPLUS, TOXLIT
RN 224043-49-6 REGISTRY

SEQ 751 LPENYNEAKC VTFSLLLNFV SWIAFFTMAS IYQGSYLPAV NVLAGLTTLS
==========

HITS AT: 751-760

=> d l2 6 all

L2 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 256479-75-1 REGISTRY
CN L-Cysteine, L-leucyl-L-prolyl-L-.alpha.-glutamyl-L-asparaginyl-L-tyrosyl-L-asparaginyl-L-.alpha.-glutamyl-L-alanyl-L-lysyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2: PN: WO0006592 SEQID: 8 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10

SEQ 1 LPENYNEAKC
==========
HITS AT: 1-10

SEQ3 1 Leu-Pro-Glu-Asn-Tyr-Asn-Glu-Ala-Lys-Cys
=== === === === === === === === === ===
HITS AT: 1-10

MF C50 H77 N13 O18 S
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C4N	NC4	5	C4N	16.136.1	1
C6	C6	6	C6	46.150.18	1

Absolute stereochemistry.

/ Structure 7 in file .gra /

/ Structure 8 in file .gra /

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1

AN 132:162043 CA
TI Nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction
IN Zuker, Charles S.; Adler, Jon Elliott; Lindemeier, Juergen; Ryba, Nick;

Hoon, Mark
PA The Regents of the University of California, USA; United States of America, Department of Health and Human Services
SO PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07K001-00
ICS C07H021-04; C12P021-06
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006592	A1	20000210	WO 1999-US17099	19990727

PI WO 2000006592 A1 20000210 WO 1999-US17099 19990727
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1998-94465 19980728
AB The invention provides isolated nucleic acid and amino acid sequences of sensory cell-specific G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sensory cell specific G-protein coupled receptors. The nucleotide sequence of cDNAs encoding GPCR-B3 isolated from rat, mouse, and human encode polypeptides of .apprx.840 amino acids with a predicted mol. wt. of .apprx.97 kDa and a predicted range of 92-102 kDa. GPCR-B3 is specifically expressed in foliate and fungiform cells, with lower expression in circumvallate taste receptor cells of the tongue. GPCR-B3 is a moderately rare sequence found in .apprx.1/150,000 cDNAs from an oligo(dT)-primed circumvallate cDNA library.
ST taste receptor B3 cDNA sequence mouse rat human
IT Taste receptors
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(B3; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(cytoplasmic domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Protein motifs
(extracellular domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)
IT cDNA sequences
(for mammalian G-protein coupled receptors involved in taste sensory transduction)
IT Molecular cloning
Mouse

Rat
Taste
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Primers (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein sequences
(of mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Tongue
(taste bud; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT Protein motifs
(transmembrane domain; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 224043-49-6P 258319-60-7P 258319-61-8P 258319-65-2P 258319-66-3P 258319-67-4P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(amino acid sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 256479-74-0 256479-75-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(degenerate amplification primers designed from; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

IT 258319-62-9P 258319-63-0P 258319-64-1P
RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(nucleotide sequence; nucleic acids encoding a mammalian G-protein coupled receptors involved in taste sensory transduction)

=> log y

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		108.93	109.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	ENTRY	SINCE FILE SESSION	TOTAL
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NEWS 4 Feb 2 STEREO BOND SEARCH PROBLEM FIXED WITH STN EXPRESS 5.0C
NEWS 5 Feb 14 Homology Searching for Nucleotide Sequences in DGENE now available!
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NEWS 7 Feb 22 New Database Producer Clusters Now Available on STN
NEWS 8 Feb 28 Structure Search Limits Increased in REGISTRY, ZREGISTRY, and CASREACT
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FILE 'HOME' ENTERED AT 13:52:45 ON 28 MAR 2000

=> file medline biosis

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'MEDLINE' ENTERED AT 13:53:25 ON 28 MAR 2000

FILE 'BIOSIS' ENTERED AT 13:53:25 ON 28 MAR 2000
COPYRIGHT (C) 2000 BIOSIS(R)

=> s (taste receptor)

L1 660 (TASTE RECEPTOR)

=> s gustatory receptor

L2 78 GUSTATORY RECEPTOR

=> s l1 or l2

L3 727 L1 OR L2

=> s l3 and clone

L4 10 L3 AND CLONE

=> s l3 and (clone or cloning or cdna)

L5 20 L3 AND (CLONE OR CLONING OR CDNA)

=> dup rem l5

PROCESSING COMPLETED FOR L5
L6 14 DUP REM L5 (6 DUPLICATES REMOVED)

=> d ibib abs 1-14

L6 ANSWER 1 OF 14 MEDLINE
ACCESSION NUMBER: 1999337936 MEDLINE
DOCUMENT NUMBER: 99337936
TITLE: Directing gene expression to gustducin-positive ***taste*** ***receptor*** cells.
AUTHOR: Wong G T; Ruiz-Avila L; Margolskee R F
CORPORATE SOURCE: Howard Hughes Medical Institute, Department of Physiology and Biophysics, The Mount Sinai School of Medicine, New York, New York 10029, USA.
CONTRACT NUMBER: RO1DC03055 (NIDCD)
R01DC03155 (NIDCD)
F32DC00142 (NIDCD)
SOURCE: JOURNAL OF NEUROSCIENCE, (1999 Jul 15) 19 (14) 5802-9.
Journal code: JDF. ISSN: 0270-6474.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199910
AB We have demonstrated that an 8.4 kb segment (GUS(8.4)) from the upstream region of the mouse alpha-gustducin gene acts as a fully functional promoter to target lacZ transgene expression to the gustducin-positive subset of ***taste*** ***receptor*** cells (TRCs). The GUS(8. 4) promoter drove TRC expression of the beta-galactosidase marker at high

levels and in a developmentally appropriate pattern. The gustducin minimal 1.4 kb promoter (GUS(1.4)) by itself was insufficient to specify TRC expression. We also identified an upstream enhancer from the distal portion of the murine gustducin gene that, in combination with the minimal promoter, specified TRC expression of transgenes. Expression of the lacZ transgene from the GUS(8.4) promoter and of endogenous gustducin was coordinately lost after nerve section and simultaneously recovered after reinnervation, confirming the functionality of this promoter. Transgenic expression of rat alpha-gustducin restored responsiveness of gustducin null mice to both bitter and sweet compounds, demonstrating the utility of the gustducin promoter.

L6 ANSWER 2 OF 14 MEDLINE
ACCESSION NUMBER: 2000040713 MEDLINE
DOCUMENT NUMBER: 20040713
TITLE: Ggamma13 colocalizes with gustducin in ***taste*** ***receptor*** cells and mediates IP3 responses to bitter denatonium.
AUTHOR: Huang L; Shanker Y G; Dubauskaite J; Zheng J Z; Yan W; Rosenzweig S; Spielman A I; Max M; Margolskee R F
CORPORATE SOURCE: Howard Hughes Medical Institute, Mount Sinai School of Medicine of New York University, Box 1677, One Gustave L. Levy Place, New York, New York 10029, USA.
CONTRACT NUMBER: DC03155 (NIDCD)
MH57241 (NIMH)
DE10754 (NIDCR)
+
SOURCE: Nat Neurosci, (1999 Dec) 2 (12) 1055-62.
Journal code: DA8. ISSN: 1097-6256.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200003
ENTRY WEEK: 20000304
AB Gustducin is a transducin-like G protein selectively expressed in ***taste*** ***receptor*** cells. The alpha subunit of gustducin (alpha-gustducin) is critical for transduction of responses to bitter or sweet compounds. We identified a G-protein gamma subunit (Ggamma13) that colocalized with alpha-gustducin in ***taste*** ***receptor*** cells. Of 19 alpha-gustducin/Ggamma13-positive ***taste*** ***receptor*** cells profiled, all expressed the G protein beta3 subunit (Gbeta3); approximately 80% also expressed Gbeta1. Gustducin heterotrimers (alpha-gustducin/Gbeta1/Ggamma13) were activated by taste cell membranes plus bitter denatonium. Antibodies against Ggamma13 blocked the denatonium-induced increase of inositol trisphosphate (IP3) in taste tissue. We conclude that gustducin heterotrimers transduce responses to bitter and sweet compounds via alpha-gustducin's regulation of phosphodiesterase (PDE) and Gbetagamma's activation of phospholipase C (PLC).

L6 ANSWER 3 OF 14 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 1999159821 MEDLINE
DOCUMENT NUMBER: 99159821
TITLE: Putative mammalian taste receptors: a class of

taste-specific GPCRs with distinct topographic selectivity.
AUTHOR: Hoon M A; Adler E; Lindemeier J; Battey J F; Ryba N J; Zuker C S
CORPORATE SOURCE: National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, Maryland 20892, USA.
SOURCE: CELL, (1999 Feb 19) 96 (4) 541-51.
Journal code: CQ4. ISSN: 0092-8674.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199905
AB Taste represents a major form of sensory input in the animal kingdom. In mammals, taste perception begins with the recognition of tastant molecules by unknown membrane receptors localized on the apical surface of receptor cells of the tongue and palate epithelium. We report the ***cloning*** and characterization of two novel seven-transmembrane domain proteins expressed in topographically distinct subpopulations of ***taste*** ***receptor*** cells and taste buds. These proteins are specifically localized to the taste pore and are members of a new group of G protein-coupled receptors distantly related to putative mammalian pheromone receptors. We propose that these genes encode taste receptors.

L6 ANSWER 4 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1999:73531 BIOSIS
DOCUMENT NUMBER: PREV199900073531
TITLE: Identification of a phospholipase C beta subtype in rat taste cells.
AUTHOR(S): Roessler, Patricia; Kroner, Christine; Freitag, Joachim; Noe, Johannes; Breer, Heinz (1)
CORPORATE SOURCE: (1) Inst. Physiol., Univ. Hohenheim, D-70593 Stuttgart Germany
SOURCE: European Journal of Cell Biology, (Nov., 1998) Vol. 77, No. 3, pp. 253-261.
ISSN: 0171-9335.
DOCUMENT TYPE: Article
LANGUAGE: English
AB From rat circumvallate papillae a novel phospholipase C (PLC) subtype has been cloned and identified as most closely related to human PLC beta2. The corresponding mRNA was only detected in sensory lingual tissue but not in non-taste lingual tissue or any other tissues examined by Northern blot analysis. In situ hybridization revealed that a subset of ***taste*** ***receptor*** cells of circumvallate papillae was specifically labeled. A functional involvement of this PLC beta subtype in taste signal transduction emerged from biochemical analysis monitoring the second messenger response in circumvallate preparations induced by denatonium benzoate. This bitter agent elicited a rapid and transient increase of the inositol 1,4,5-trisphosphate level; this response was blocked by U73122, a potent inhibitor of PLC, and by PLC beta2-specific antibodies. These data indicate that a phospholipase C beta2 isoform mediates a denatonium benzoate-induced second messenger response of taste sensory cells in the circumvallate papillae.

L6 ANSWER 5 OF 14 MEDLINE DUPLICATE 2

ACCESSION NUMBER: 97271227 MEDLINE
DOCUMENT NUMBER: 97271227
TITLE: Analysis and comparison of partial sequences of clones from a taste-bud-enriched ***cDNA*** library.
AUTHOR: Hoon M A; Ryba N J
CORPORATE SOURCE: Laboratory of Immunology, National Institute of Dental Research, National Institutes of Health, Bethesda, Maryland 20892, USA.
SOURCE: JOURNAL OF DENTAL RESEARCH, (1997 Apr) 76 (4) 831-8. Journal code: HYV. ISSN: 0022-0345.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Dental Journals
OTHER SOURCE: GENBANK-Z14957; GENBANK-M83196; GENBANK-U10484; GENBANK-U02098; GENBANK-X66494; GENBANK-X81003; GENBANK-M97636; GENBANK-X14194; GENBANK-M32489; GENBANK-P11883; GENBANK-L07910; GENBANK-L08407; GENBANK-X04240; GENBANK-L46593; GENBANK-D28602; GENBANK-U37558; GENBANK-L24116; GENBANK-M81088; GENBANK-X16481; GENBANK-M10937; GENBANK-X52733; GENBANK-X02580; GENBANK-U29175; GENBANK-U12026; GENBANK-M86389; GENBANK-Z36277; GENBANK-S63233; GENBANK-U31880; GENBANK-X74760; GENBANK-L07769; +
ENTRY MONTH: 199707
ENTRY WEEK: 19970701
AB Differential patterns of cellular development and function are determined, at least in part, by the specific gene expression of particular cells. Thus, determination of differential patterns of gene expression between tissues is likely to help elucidate molecular details of tissue-specific processes. Our hypothesis was that cells of the circumvallate papilla involved in taste perception would express genes that are not expressed in the surrounding epithelium and that determination of the nature of these genes could be helpful in our understanding of the molecular details of taste. Using partial sequencing of clones derived from rat circumvallate papillae, we have begun to characterize genes that could be important in taste. We prepared a ***cDNA*** library of whole circumvallate papillae and, by means of a novel subtraction procedure, enriched taste-specific clones. Characterization of the libraries showed that subtraction resulted in good enrichment of taste-specific clones. Here we report the partial sequencing and analysis of 410 ***cDNA*** clones from the taste-bud-enriched ***cDNA*** library. Approximately 25% of the genes were identified on the basis of their high homology to known transcripts. These included the developmentally important molecules Pax-1, esp1, Notch 1, and Notch 3 that may play roles in the continuous turnover of ***taste*** ***receptor*** cells. A further 20% of the genes had no significant homology to known DNA sequences and were identified as taste-specific by Southern blot analysis.

L6 ANSWER 6 OF 14 MEDLINE
ACCESSION NUMBER: 96270593 MEDLINE
DOCUMENT NUMBER: 96270593
TITLE: ***Taste*** ***receptor*** -like cells in the rat gut identified by expression of alpha-gustducin.
AUTHOR: Hofer D; Puschel B; Drenckhahn D

CORPORATE SOURCE: Institute of Anatomy, University of Wurzburg, Germany.
SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1996 Jun 25) 93 (13) 6631-4.
Journal code: PV3. ISSN: 0027-8424.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 199610
AB The alpha-subunit of the trimeric G-protein complex specific for ***taste*** ***receptor*** cells of the tongue, alpha-gustducin, is described here to be also expressed in the stomach and intestine. The alpha-gustducin-containing cells were identified as brush cells that are scattered throughout the surface epithelium of the gut and share structural features of ***taste*** ***receptor*** cells of the tongue. These findings provide clues to the long-sought molecular and cellular basis for chemoreception in the gut.

L6 ANSWER 7 OF 14 MEDLINE
ACCESSION NUMBER: 96267008 MEDLINE
DOCUMENT NUMBER: 96267008
TITLE: Transduction of bitter and sweet taste by gustducin [see comments] [published erratum appears in Nature 1996 Oct 10;383(6600):557].
COMMENT: Comment in: Nature 1996 Jun 27;381(6585):737-8
AUTHOR: Wong G T; Gannon K S; Margolskee R F
CORPORATE SOURCE: Department of Physiology and Biophysics, Mount Sinai School of Medicine, New York 10029, USA.
SOURCE: NATURE, (1996 Jun 27) 381 (6585) 796-800.
Journal code: NSC. ISSN: 0028-0836.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Cancer Journals; Priority Journals
ENTRY MONTH: 199610
AB Several lines of evidence suggest that both sweet and bitter tastes are transduced via receptors coupled to heterotrimeric guanine-nucleotide-binding proteins (G proteins). Gustducin is a ***taste*** ***receptor*** cell (TRC)-specific G protein that is closely related to the transducins. Gustducin and rod transducin, which is also expressed in TRCs, have been proposed to couple bitter-responsive receptors to TRC-specific phosphodiesterases to regulate intracellular cyclic nucleotides. Here we investigate gustducin's role in taste transduction by generating and characterizing mice deficient in the gustducin alpha-subunit (alpha-gustducin). As predicted, the mutant mice showed reduced behavioural and electrophysiological responses to bitter compounds, whereas they were indistinguishable from wild-type controls in their responses to salty and sour stimuli. Unexpectedly, mutant mice also exhibited reduced behavioural and electrophysiological responses to sweet compounds. Our results suggest that gustducin is a principal mediator of both bitter and sweet signal transduction.

L6 ANSWER 8 OF 14 MEDLINE DUPLICATE 3
ACCESSION NUMBER: 95253834 MEDLINE
DOCUMENT NUMBER: 95253834

TITLE: Mosaic analysis of the embryonic origin of taste buds.
AUTHOR: Stone L M; Finger T E
CORPORATE SOURCE: Department of Cellular and Structural Biology, Rocky Mountain Taste and Smell Center, University of Colorado School of Medicine, Denver 80262, USA..
CONTRACT NUMBER: P01DC00244 (NIDCD)
SOURCE: CHEMICAL SENSES, (1994 Dec) 19 (6) 725-35. Ref: 44
Journal code: B4B. ISSN: 0379-864X.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199508
AB The embryonic origins of ***taste*** ***receptor*** cells have not been established experimentally. Although related receptor cells (e.g. hair cells of the inner ear, lateral line receptors) are known to arise from neurogenic ectoderm (e.g. neural crest or placodes), taste buds are described as arising from local epithelial cells. Also unknown is whether or not each taste bud is a ***clone*** of cells, i.e. arising from a single progenitor. To address these problems, mosaic and chimeric analyses of lingual epithelium and taste buds have been undertaken. This paper describes the theory of chimeric and mosaic cell lineage analyses, the advantages and disadvantages, and the preliminary results obtained from the examination of the taste buds and lingual epithelium of: 1) mosaic Xenopus, 2) chimeric mice and 3) X-inactivation mosaic mice.

L6 ANSWER 9 OF 14 MEDLINE DUPLICATE 4
ACCESSION NUMBER: 93280176 MEDLINE
DOCUMENT NUMBER: 93280176
TITLE: Primary structure and cell-type specific expression of a gustatory G protein-coupled receptor related to olfactory receptors.
AUTHOR: Abe K; Kusakabe Y; Tanemura K; Emori Y; Arai S
CORPORATE SOURCE: Department of Agricultural Chemistry, Faculty of Agriculture, University of Tokyo, Japan.
SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1993 Jun 5) 268 (16) 12033-9.
Journal code: HIV. ISSN: 0021-9258.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
OTHER SOURCE: GENBANK-D12820
ENTRY MONTH: 199309
AB We have reported on the partial structures of a multigene family encoding GTP-binding protein (G protein)-coupled, seven-transmembrane receptors expressed in the tongue (Abe, K., Kusakabe, Y., Tanemura, K., Emori, Y., and Arai, S. (1993) FEBS Lett. 316, 253-256). Here we describe a full-length ***cDNA*** ***clone*** encoding a tongue cell-type specific receptor. The encoded protein consists of 312 amino acid residues. In overall structure, the protein is similar to known G protein-coupled, seven-transmembrane receptors such as an olfactory receptor (56% identity) but is significantly different in part,

particularly in NH2-terminal extracellular and COOH-terminal cytoplasmic domain structures. Northern analysis showed that the mRNA for this protein is expressed only in the epithelium of the tongue, not in other organs. In situ hybridization experiments clearly indicated that the mRNA is expressed exclusively on the tongue apical surface, not on the reverse side of the tongue nor in its muscle layer. Expression was also detected in the taste buds and surrounding cellular tissues of the fungiform and circumvallate papillae. It is suggested that this ***gustatory*** ***receptor*** structurally related to olfactory receptors may be a candidate for a ***taste*** ***receptor*** .

L6 ANSWER 10 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1993:372362 BIOSIS
DOCUMENT NUMBER: PREV199396058037
TITLE: Sequence and structural implications of a bovine corneal keratan sulfate proteoglycan core protein: Protein 37B represents bovine lumican and proteins 37A and 25 are unique.
AUTHOR(S): Funderburgh, James L. (1); Funderburgh, Martha L.; Brown, Susan J.; Vergnes, J.-P.; Hassell, John R.; Mann, Mary M.; Conrad, Gary W.
CORPORATE SOURCE: (1) Div. Biol., Ackert Hall, Kansas State Univ., Manhattan, KS 66506 USA
SOURCE: Journal of Biological Chemistry, (1993) Vol. 268, No. 16, pp. 11874-11880.
ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
AB Amino acid sequence from tryptic peptides of three different bovine corneal keratan sulfate proteoglycan (KSPG) core proteins (designated 37A, 37B, and 25) showed similarities to the sequence of a chicken KSPG core protein lumican. Bovine lumican ***cDNA*** was isolated from a bovine corneal expression library by screening with chicken lumican ***cDNA*** . The bovine ***cDNA*** codes for a 342-amino acid protein, M-r 38,712, containing amino acid sequences identified in the 37B KSPG core protein. The bovine lumican is 68% identical to chicken lumican, with an 83% identity excluding the N-terminal 40 amino acids. Location of 6 cysteine and 4 consensus N-glycosylation sites in the bovine sequence were identical to those in chicken lumican. Bovine lumican had about 50% identity to bovine fibromodulin and 20% identity to bovine decorin and biglycan. About two-thirds of the lumican protein consists of a series of 10 amino acid leucine-rich repeats that occur in regions of calculated high beta-hydrophobic moment, suggesting that the leucine-rich repeats contribute to beta-sheet formation in these proteins. Sequences obtained from 37A and 25 core proteins were absent in bovine lumican, thus predicting a unique primary structure and separate mRNA for each of the three bovine KSPG core proteins.

L6 ANSWER 11 OF 14 MEDLINE
ACCESSION NUMBER: 94099777 MEDLINE
DOCUMENT NUMBER: 94099777
TITLE: The molecular biology of taste transduction.
AUTHOR: Margolskee R F
CORPORATE SOURCE: Roche Research Center, Roche Institute of Molecular Biology, Nutley, NJ 07110.

SOURCE: BIOESSAYS, (1993 Oct) 15 (10) 645-50. Ref: 61
Journal code: 9YY. ISSN: 0265-9247.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
ENTRY MONTH: 199404
AB Taste cells respond to a wide variety of chemical stimuli: certain ions are perceived as salty (Na+) or sour (H+); other small molecules are perceived as sweet (sugars) and bitter (alkaloids). Taste has evolutionary value allowing animals to respond positively (to sweet carbohydrates and salty NaCl) or aversively (to bitter poisons and corrosive acids). Recently, some of the proteins involved in taste transduction have been cloned. Several different G proteins have been identified and cloned from taste tissue: gustducin is a taste cell specific G protein closely related to the transducins. Work is under way to ***clone*** additional components of the taste transduction pathways. The combination of electrophysiology, biochemistry and molecular biology is being used to characterize ***taste*** ***receptor*** cells and their sensory transduction mechanisms.

L6 ANSWER 12 OF 14 MEDLINE DUPLICATE 5
ACCESSION NUMBER: 93176795 MEDLINE
DOCUMENT NUMBER: 93176795
TITLE: Molecular ***cloning*** of human von Ebner's gland protein, a member of the lipocalin superfamily highly expressed in lingual salivary glands.
AUTHOR: Blaker M; Kock K; Ahlers C; Buck F; Schmale H
CORPORATE SOURCE: Institut fur Zellbiochemie und klinische Neurobiologie, Universitat Hamburg, Germany..
SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1993 Feb 20) 1172 (1-2) 131-7.
Journal code: A0W. ISSN: 0006-3002.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Cancer Journals; Priority Journals
OTHER SOURCE: GENBANK-X62418; GENBANK-L02964; GENBANK-X61667; GENBANK-L17031; GENBANK-L17032; GENBANK-L17033; GENBANK-L04613; GENBANK-L04614; GENBANK-L04615; GENBANK-L04616
ENTRY MONTH: 199306
AB Von Ebner's glands (VEG) are small lingual salivary glands. Their ducts open into trenches of circumvallate and foliate papillae, thus influencing the milieu where the interaction between ***taste*** ***receptor*** cells and sapid molecules takes place. The major secretions of human VEG is a protein with a molecular mass of 18 kDa. The human VEG protein crossreacts with antibodies raised against the rat VEG protein, indicating sequence similarity between the rat and human VEG proteins. This was subsequently confirmed by N-terminal protein sequencing. A ***cDNA*** ***clone*** , isolated from a human VEG library, contained an insert of 735 bp including an open reading frame that encodes the human VEG protein of 176 amino acids. Comparison of the human and rat VEG proteins revealed an overall identity of 60%. Immunocytochemistry, in situ hybridization and

in vitro translation studies demonstrated the human VEG protein to be highly and exclusively expressed in VEG. The VEG proteins are members of the lipocalin protein superfamily and, together with the rat odorant binding protein II, they constitute a new subfamily. Sequence similarity to proteins such as the retinol binding protein and the odorant binding protein which are lipophilic ligand carriers, suggests a possible function for the human VEG protein in taste perception.

L6 ANSWER 13 OF 14 BIOSIS COPYRIGHT 2000 BIOSIS
ACCESSION NUMBER: 1992:86167 BIOSIS
DOCUMENT NUMBER: BR42:38442
TITLE: AN EXPRESSION SYSTEM FOR THE ***CLONING*** OF ***TASTE*** ***RECEPTOR*** PROTEINS.
AUTHOR(S): SMUTZER G; HONDA E; RESTREPO D; KALINOSKI L; TEETER J
CORPORATE SOURCE: MONELL CHEM. SENSES CENT., PHILADELPHIA, PA.
SOURCE: THIRTEENTH ANNUAL MEETING OF THE ASSOCIATION FOR CHEMORECEPTION SCIENCES, SARASOTA, FLORIDA, USA, APRIL 1991. CHEM SENSES, (1991) 16 (5), 582.
CODEN: CHSED8. ISSN: 0379-864X.
DOCUMENT TYPE: Conference
FILE SEGMENT: BR; OLD
LANGUAGE: English

L6 ANSWER 14 OF 14 MEDLINE DUPLICATE 6
ACCESSION NUMBER: 86296777 MEDLINE
DOCUMENT NUMBER: 86296777
TITLE: Contribution of electrostatic and hydrophobic interactions of bitter substances with ***taste*** ***receptor*** membranes to generation of receptor potentials.
AUTHOR: Kumazawa T; Kashiwayanagi M; Kurihara K
SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1986 Aug 29) 888 (1) 62-9.
Journal code: A0W. ISSN: 0006-3002.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals; Cancer Journals
ENTRY MONTH: 198612
AB The effects of changed ionic environments on the frog taste nerve responses to the bitter substances were examined. The responses to quinine and strychnine carrying a positive charge were suppressed by an increase in ionic strength of stimulating solutions. It was concluded that electrostatic interaction of these positive bitter substances with the receptor membranes greatly contributes to the adsorption of the substances on the membranes and that this interaction was suppressed by an increase in ionic strength. The responses to neutral bitter substances (caffeine and theophylline) were unchanged by an increase in salt concentration. The zeta potential of the mouse neuroblastoma (N-18 ***clone***), which was depolarized by various bitter substances similarly to a taste cell, was measured in the presence of the bitter substances. The zeta potential was a little changed by quinine and practically unchanged by strychnine, caffeine and theophylline. The membrane fluidity of the N-18 cell monitored with 2-(9-anthroyloxy)stearic acid was changed in response to the bitter substances, while the fluidity monitored with 12-(9-anthroyloxy)stearic acid or 1,6-diphenyl-1,3,5-hexatriene was unchanged. This suggested that the bitter substances are adsorbed on the

hydrophobic region near the surface and induce a conformational change at the region. The depolarization by the bitter substances seems to stem from changes in the "boundary potential" at the region near the surface within the membrane interior.

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Search Results - Record(s) 1 through 13 of 13 returned.

1. Document ID: US 6008000 A

Entry 1 of 13 File: USPT Dec 28, 1999

US-PAT-NO: 6008000
DOCUMENT-IDENTIFIER: US 6008000 A

TITLE: Gustducin materials and methods
DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Margolskee; Robert F.	Upper Montclair	NJ	N/A	N/A

US-CL-CURRENT: 435/7.1; 530/350

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

2. Document ID: US 5965698 A

Entry 2 of 13 File: USPT Oct 12, 1999

US-PAT-NO: 5965698
DOCUMENT-IDENTIFIER: US 5965698 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein--protein interaction site
DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 530/326; 530/300, 530/324, 530/333, 530/380, 548/533

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

3. Document ID: US 5952465 A

Entry 3 of 13 File: USPT Sep 14, 1999

US-PAT-NO: 5952465
DOCUMENT-IDENTIFIER: US 5952465 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein-protein interaction site
DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 530/333; 424/185.1, 424/278.1, 530/326, 530/327, 530/328, 548/533

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Image

4. Document ID: US 5948887 A

Entry 4 of 13 File: USPT Sep 7, 1999

US-PAT-NO: 5948887
DOCUMENT-IDENTIFIER: US 5948887 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein--protein interaction site
DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 530/333; 548/533

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Image

5. Document ID: US 5928896 A

Entry 5 of 13 File: USPT Jul 27, 1999

US-PAT-NO: 5928896
DOCUMENT-IDENTIFIER: US 5928896 A

TITLE: Polypeptides that include conformation-constraining groups which flank a protein--protein interaction site
DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Evans; Herbert J.	Richmond	VA	N/A	N/A
Kini; R. Manjunatha	Singapore	N/A	N/A	SGX

US-CL-CURRENT: 435/69.1; 435/91.2, 530/300, 530/324

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Image

6. Document ID: US 5817759 A

Entry 6 of 13 File: USPT Oct 6, 1998

US-PAT-NO: 5817759
DOCUMENT-IDENTIFIER: US 5817759 A

TITLE: Gustducin polypeptides and fragments
DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Margolskee; Robert F.	Upper Montclair	NJ	N/A	N/A

US-CL-CURRENT: 530/350; 435/69.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

7. Document ID: US 5739409 A

Entry 7 of 13 File: USPT Apr 14, 1998

US-PAT-NO: 5739409
DOCUMENT-IDENTIFIER: US 5739409 A

TITLE: Endogenously sweetened transgenic plant products
DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Robert	El Cerrito	CA	N/A	N/A
Kim; Sung-Hou	Moraga	CA	N/A	N/A
Cho; Joong Myung	Moraga	CA	N/A	N/A
Penarrubia; Lola	Berkeley	CA	N/A	N/A
Giovannoni; James	San Francisco	CA	N/A	N/A
Kim; Rosalind	Moraga	CA	N/A	N/A

US-CL-CURRENT: 800/298; 435/320.1, 435/419, 47/58.1, 800/305, 800/312, 800/320.2, 800/322

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

8. Document ID: US 5693756 A

Entry 8 of 13 File: USPT Dec 2, 1997

US-PAT-NO: 5693756
DOCUMENT-IDENTIFIER: US 5693756 A

TITLE: Amiloride-sensitive sodium channel and method of identifying substances which stimulate or block salty taste perception
DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Xiao-Jiang	Baltimore	MD	N/A	N/A
Blackshaw; Seth	Baltimore	MD	N/A	N/A
Snyder; Solomon H.	Baltimore	MD	N/A	N/A

US-CL-CURRENT: 530/350; 436/501, 530/324, 530/327

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

9. Document ID: US 5688662 A

Entry 9 of 13 File: USPT Nov 18, 1997

US-PAT-NO: 5688662
DOCUMENT-IDENTIFIER: US 5688662 A

TITLE: Gustducin polynucleotides, vectors, host cells and recombinant methods
DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Margolskee; Robert F.	Upper Montclair	NJ	N/A	N/A

US-CL-CURRENT: 435/69.1; 435/320.1, 530/350, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

10. Document ID: US 5684126 A

Entry 10 of 13 File: USPT Nov 4, 1997

US-PAT-NO: 5684126
DOCUMENT-IDENTIFIER: US 5684126 A

TITLE: Ebnerin: a secreted von Ebner's gland protein associated with taste buds
DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Xiao-Jiang	Baltimore	MD	N/A	N/A
Snyder; Solomon H.	Baltimore	MD	N/A	N/A

US-CL-CURRENT: 530/300; 530/350

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

11. Document ID: US 5464770 A

Entry 11 of 13 File: USPT Nov 7, 1995

US-PAT-NO: 5464770
DOCUMENT-IDENTIFIER: US 5464770 A

TITLE: DNA encoding (ASP 113) and (LYS 46, ASP 113) thaumatin I
DATE-ISSUED: November 7, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weickmann; Joachim L.	Los Angeles	CA	N/A	N/A
Ghosh-Dastidar; Pradip	Los Angeles	CA	N/A	N/A

US-CL-CURRENT: 435/254.21; 536/23.6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

12. Document ID: US 5234834 A

Entry 12 of 13 File: USPT Aug 10, 1993

US-PAT-NO: 5234834
DOCUMENT-IDENTIFIER: US 5234834 A

TITLE: Constructs for expression of monellin in plant cells
DATE-ISSUED: August 10, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fischer; Robert	Elcerrito	CA	N/A	N/A
Kim; Sung-Hou	Moraga	CA	N/A	N/A
Cho; Joong M.	Moraga	CA	N/A	N/A
Penarrubia; Lola	Berkeley	CA	N/A	N/A
Giovannoni; James	San Francisco	CA	N/A	N/A
Kim; Rosalind	Moraga	CA	N/A	N/A

US-CL-CURRENT: 435/320.1; 435/69.1, 536/23.6, 536/24.1, 800/305, 800/317.4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

13. Document ID: US 5221624 A

Entry 13 of 13 File: USPT Jun 22, 1993

US-PAT-NO: 5221624
DOCUMENT-IDENTIFIER: US 5221624 A

TITLE: DNA encoding (Lys.sup.46, Asp.sup.97, Asp.sup.113) and (Lys.sup.46, Asp.sup . .sup.137) thaumatin I polypeptides
DATE-ISSUED: June 22, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blair; Lindley C.	Los Angeles	CA	N/A	N/A
Koduri; Raju K.	LaJolla	CA	N/A	N/A
Lee; Jar-How	Palos Verdes Estates	CA	N/A	N/A
Weickmann; Joachim L.	Los Angeles	CA	N/A	N/A

US-CL-CURRENT: 435/252.33; 435/243, 435/254.2, 435/254.21, 435/320.1, 435/69.1, 536/23.6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

Terms	Documents
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Refine Search: l3 and (clone or cloning or cdna)

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DB Name	Query	Hit Count	Set Name
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ALL	l1 or l2	134	L3
ALL	gustatory receptor	8	L2
ALL	taste receptor	129	L1